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SEQUENCE LISTING

<110> RENNO Toufic BONNEFOY Jean-Yves

<120> USE OF AN ENTEROBACTERIUM OmpA PROTEIN ASSOCIATED WITH AN ANTIGEN FOR GENERATING AN ANTIVIRAL, ANTIPARASITIC OR

ANTITUMORAL CYTOTOXIC RESPONSE <130> D 17921 <140> PCT/FR 00/00393 <141> 2000-02-17 <150> FR 99 01917 <151> 1999-02-17 <160> 4 <170> PatentIn Ver. 2.1 <210> 1 <211> 1035 <212> DNA <213> Klebsiella pneumoniae <220> <221> exon <222> (1)..(1032) <220> <221> intron <222> (1033)..(1035) <220> <221> CDS <222> (1)..(1032) <400> 1 atg aaa gca att ttc gta ctg aat gcg gct ccg aaa gat aac acc tgg 48 Met Lys Ala Ile Phe Val Leu Asn Ala Pro Lys Asp Asn Thr Trp tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe tac ggt aac ggt ttc cag aac aac ggt ccg acc cgt aac gat cag 144 Tyr Gly Asn Gly Phe Gln Asn Asn Gly Pro Thr Arg Asn Asp Gln ctt ggt gct ggt tcc ggt ggt tac cag gtt aac ccg tac ctc ggt 192 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser

gtt gac aac ggt gct ttc aaa gct cag ggc gtt cag ctg acc gct aaa

Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys

95 95

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cto Lev	g ggt Gly	tac Tyr	Pro 100) Ile	c act e Thr	gac Asp	gat Asp	cto Leu 105	ı Asp	ato Ile	tao Tyi	c acc	c cgt Arg 110	g Le	g ggc u Gly	336
ggc Gly	: atg Met	gtt Val 115	. Trp	g cgc Arg	gct Ala	gac Asp	Ser 120	Lys	ggc Gly	aac Asn	tac Tyr	gct Ala 125	Sei	acc Thi	e ggc	384
gtt Val	Ser 130	Arg	ago Ser	gaa Glu	cac His	gac Asp 135	Thr	ggc	gtt Val	tcc Ser	cca Pro	Val	ttt Phe	gct Ala	ggc	432
ggc Gly 145	Val	gag Glu	tgg Trp	gct Ala	gtt Val 150	Thr	cgt Arg	gac Asp	atc Ile	get Ala 155	Thr	cgt Arg	ctg Leu	gaa Glu	tac Tyr 160	480
cag Gln	tgg Trp	gtt Val	aac Asn	aac Asn 165	atc Ile	ggc	gac Asp	gcg Ala	ggc Gly 170	Thr	gtg Val	ggt Gly	acc Thr	cgt Arg 175	cct Pro	528
gat Asp	aac Asn	ggc ggc	atg Met 180	ctg Leu	agc ·Ser	ctg Leu	ggc Gly	gtt Val 185	tcc Ser	tac Tyr	cgc Arg	ttc Phe	ggt Gly 190	Gln	gaa Glu	576
gat Asp	gct Ala	gca Ala 195	ccg Pro	gtt Val	gtt Val	gct Ala	ccg Pro 200	gct Ala	ccg Pro	gct Ala	ccg Pro	gct Ala 205	ccg Pro	gaa Glu	gtg Val	624
gct Ala	acc Thr 210	aag Lys	cac His	ttc Phe	acc Thr	ctg Leu 215	aag Lys	tct Ser	gac Asp	gtt Val	ctg Leu 220	ttc Phe	aac Asn	ttc Phe	aac Asn	672
aaa Lys 225	gct Ala	acc Thr	ctg Leu	aaa Lys	ccg Pro 230	gaa Glu	ggt Gly	cag Gln	cag Gln	gct Ala 235	ctg Leu	gat Asp	cag Gln	ctg Leu	tac Tyr 240	720
act Thr	cag Gln	ctg Leu	agc Ser	aac Asn 245	atg Met	gat Asp	ccg Pro	aaa Lys	gac Asp 250	ggt Gly	tcc Ser	gct Ala	gtt Val	gtt Val 255	ctg Leu	768
					atc Ile											816
gag Glu	aaa Lys	cgt Arg 275	gct Ala	cag Gln	tcc Ser	gtt Val	gtt Val 280	gac Asp	tac Tyr	ctg Leu	gtt Val	gct Ala 285	aaa Lys	ggc Gly	atc Ile	864
ccg Pro	gct Ala 290	ggc Gly	aaa Lys	atc Ile	tcc Ser	gct Ala 295	cgc Arg	ggc Gly	atg Met	ggt Gly	gaa Glu 300	tcc Ser	aac Asn	ccg Pro	gtt Val	912
act Thr 305	ggc Gly	aac Asn	acc Thr	tgt Cys	gac Asp 310	aac Asn	gtg Val	aaa Lys	gct Ala	cgc Arg 315	gct Ala	gcc Ala	ctg Leu	atc Ile	gat Asp 320	960
tgc Cys	ctg Leu	gct Ala	Pro	gat Asp 325	cgt Arg	cgt Arg	gta Val	gag Glu	atc Ile 330	gaa Glu	gtt Val	aaa Lys	ggc Gly	tac Tyr 335	aaa Lys	1008

gaa gtt gta act cag ccg gcg ggt taa Glu Val Val Thr Gln Pro Ala Gly 340

1035

<210> 2

<211> 344

<212> PRT

<213> Klebsiella pneumoniae

<400> 2

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Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe 20 25 30

Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln 35 40 45

Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly 50 55 60

Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
65 70 75 80

Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys 85 90 95

Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
100 105 110

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly 115 120 125

Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly 130 135 140

Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr 145 150 155 160

Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro 165 170 175

Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu 180 185 190

Asp Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val 195 200 205

Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn 210 215 220

Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr 225 230 235 240

Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Leu 245 250 255

Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser

260 265 270

Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile 275 280 285

Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val 290 295 300

Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp 305 310 315 320

Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys 325 330 335

Glu Val Val Thr Gln Pro Ala Gly 340

<210> 3

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<223> Peptide derived from the Mart-1/MelanA antigen expressed by melanoma cells.

<400> 3

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val 1 5 10

<210> 4

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<223> Derivative of tyrosinase-related protein 2 (TRP-2).

<400> 4

Val Tyr Asp Phe Phe Val Trp Leu